

NEW SCIENTIST discloses a system of intercontinental power linkage covering relatively small areas of approximately 5,000 km. The present invention, as disclosed and claimed, is directed to a vast concept that covers the Pacific Rim, including, as presently claimed, an East Asia system, an Australia system, a North America system, and a South America system. The North America system is connected to the South America system, the South America system is connected to the Australia system through the Antarctic continent, the Australia system is connected to the East Asia system, and the East Asia system is connected to the North America system via the Bering Strait.

Thus, for example, the East Asia system can be connected to the North America system through not only the Bering Strait, but also through the Antarctic continent. A concept so vast is not disclosed or contemplated by NEW SCIENTIST.

By so limiting the invention, the present claims patentably define over the disclosure of NEW SCIENTIST. Further, the claims have been amended so as not to be in the Jepson format, thus removing any implication of admitted prior art.

In view of the foregoing amendments and remarks, the Applicants request reconsideration of the rejection and allowance of the claims.

Respectfully submitted,



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MARKED-UP VERSION OF REWRITTEN CLAIMS

1. (Amended) An energy and power interchange system according to claim 24, [comprising a system including energy generating means which generates transmittable energy using an energy source, an energy path which transmits energy generated by said energy generating means across a border between two foreign countries, at least one of which produces its entire demand for electricity including transient electrical power, measuring equipment which is mounted on said energy path for measuring an amount of energy which is transmitted through said energy path, and a system which consumes energy supplied by way of said energy path, the improvement being characterized in that]

wherein said energy source[s] used by said energy [generating means] generator and said generated energy amount are controlled in response to said energy amount measured by said measuring equipment, and

[in that] wherein energy is transmitted from one of said two foreign countries to the other of said two foreign countries in response to a requirement of said other of said two foreign countries.

2. (Amended) An energy and power interchange system according to claim 27, [comprising a first system including power generating facilities, a second system in a country foreign to the country of said first system constructed by a direct current transmission system which interconnects said first system and said second system, and measuring equipment which is mounted on an energy path of said direct current transmission system and measures an energy amount transmitted through said energy path across a border between said countries, wherein at least one of said countries produces its entire demand for electricity including transient electrical power, the improvement being characterized in that]

wherein control parameters of said first and second systems are changed or said transmitting direction of energy is decided in response to said energy amount measured by said measuring equipment, and

[in that] wherein energy is transmitted from one of said countries to the other of said countries in response to a requirement of said other of said countries.

3. (Amended) An energy and power interchange system according to claim 30, [comprising an energy path constituted by a direct current transmission system which interconnects systems of at least three different countries having power

generating facilities and measuring equipment which is mounted on said energy path and measures an energy amount transmitted through said energy path across a border between two of said countries, at least one of which produces its entire demand for electricity including transient electrical power, the improvement being characterized in that]

wherein control parameters of said systems of said at least three Pacific Rim countries are changed or transmitting direction of energy is decided in response to said energy amount measured by said measuring equipment, and

[in that] wherein energy is transmitted from a first one of said Pacific Rim countries to [another] a second one of said Pacific Rim countries in response to a requirement of said [another] second one of said Pacific Rim countries.

17. (Amended) An energy and power interchange method according to claim 24, [characterized in that a first system which is provided with power generating facilities and a second system in a foreign country which is provided with power generating facilities are interconnected by an energy path constituted by a direct current power transmission system, transmitting energy is measured by measuring equipment mounted on said energy path, and] wherein control parameters of [one of] said [first] system including said energy

generator [and said second system] are changed and energy transmitting direction is decided in response to energy amount measured by the measuring equipment.

24. (Amended) An energy and power interchange system [according to claim 1], comprising:

a system including an energy generator which generates transmittable energy using an energy source,

[wherein said] an energy path which transmits energy generated by said energy generator across national borders, so as to link together systems in pairs, each system of each linked pair including a Pacific Rim [countries] country, for transmission of energy [thereamong] across the national border therebetween, at least one of which Pacific Rim countries produces its own demand for electricity including transient electrical power,

measuring equipment which is mounted on said energy path for measuring an amount of energy which is transmitted through said energy path, and

a system which consumes energy supplied by way of said energy path,

wherein said energy path links together the following system pairs: a North America system and a South America system, a South America system and an Australia system linked

through the Antarctic continent, an Australia system and an East Asia system, and an East Asia system and a North America system linked through the Bering Strait.

27. (Amended) An energy and power interchange system [according to claim 2], comprising:

a first system including power generating facilities located in a first Pacific Rim country,

a second system in a second Pacific Rim country foreign to the first Pacific Rim country, constructed by a direct current transmission system which interconnects said first system and said second system, and

measuring equipment which is mounted on an energy path of said direct current transmission system and measures an energy amount transmitted through said energy path across a border between said countries,

wherein said energy path transmits energy so as to link together pairs of systems including said first and second systems, each system of each linked pair including a Pacific Rim [countries] country for transmission of energy [thereamong] across a national border therebetween,

wherein at least one of said Pacific Rim countries in each system pair produces its own demand for electricity including transient electrical power, and

wherein said energy path links together the following system pairs: a North America system and a South America system, a South America system and an Australia system linked through the Antarctic continent, an Australia system and an East Asia system, and an East Asia system and a North America system linked through the Bering Strait.

30. (Amended) An energy and power interchange system [according to claim 3], comprising:

[wherein said] an energy path which transmits energy so as to link together pairs of systems, each system of each linked pair including a Pacific Rim [countries] country for transmission of energy [thereamong] across a national border therebetween, constituted by a direct current transmission system which interconnects at least three different Pacific Rim countries including said different respective countries included in said linked pair of systems, wherein said direct current transmission system includes:

power generating facilities, and

measuring equipment which is mounted on said energy path and which measures an energy amount transmitted through said energy path across a border between two of said at least three Pacific Rim countries, at least one

of which Pacific Rim countries produces its own demand
for electricity including transient electrical power,
wherein said energy path links together the following
system pairs: a North America system and a South America
system, a South America system and an Australia system linked
through the Antarctic continent, an Australia system and an
East Asia system, and an East Asia system and a North America
system linked through the Bering Strait.